

SABIC Innovative Plastics LNP Stat-kon DEP32XXC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEP32XXC is a compound based on Polycarbonate resin containing Carbon Fiber, Silicone, PTFE. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-DEP32XXC-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
	1.30 g/cc	0.0470 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.16 %	0.16 %	23 ^o C / 50% RH; ISO 62
	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0012 cm/cm	0.0012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 527
	91.0 MPa	13200 psi	ASTM D 638
Elongation at Break	2.0 %	2.0 %	ASTM D 638
	3.0 %	3.0 %	ISO 527
Tensile Modulus	7.86 GPa	1140 ksi	50 mm/min; ASTM D 638
	7.884 GPa	1143 ksi	1 mm/min; ISO 527
Flexural Strength	124 MPa	18000 psi	ASTM D 790
	137 MPa	19900 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	6.44 GPa	789 ksi	ASTM D 790
	6.491 GPa	941.4 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm @Temperature 23.0 Â°C	1.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	1.97 J/cm @Temperature 23.0 Â°C	3.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	9.00 kJ/mÂ² @Temperature 23.0 Â°C	4.28 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/mÂ² @Temperature 23.0 Â°C	11.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	143 Â°C	289 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 Â°C @Thickness 3.20 mm	288 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	ASTM D 257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D 257

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